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NINTH ANNUAL REPORT

OF THE

BOARD OF HEALTH

OF THE

Taxing District of Shelby County,

(CITY OF MEMPHIS,)

FOR THE YEAR 1887,

—BY—

G. B. THORNTON, M. D., PRESIDENT.

I155
M53
1887

MEMPHIS:
S. C. Toof & Co., Printers and Lithographers.
1888.

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D. P. HADDEN, Pres. Taxing Dist., *Member Ex-Officio.*

SANITARY POLICE.

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NINTH ANNUAL REPORT.

Hon. Legislative Council:

GENTLEMEN:—I have the honor to submit this the Ninth Annual Report of the operations of the Board of Health for the year ending December 31, 1887, with such suggestions as are thought best and practicable for the promotion of the public health interests of the city. The general health of the city during the year has been fairly good. No one disease has prevailed at any time to the extent to be called epidemic, though for a time, in September and October, it was apprehended that diphtheria would become so. By reference to the mortality table it will be observed that the total number of deaths for the year, from this disease, was forty-four; the largest mortality for any one month being twelve, which occurred in October. The total number of cases reported was 160. The largest number reported for any one month was thirty-six, for October. The greatest number of cases of scarlet fever reported for any one month was in March and November—fourteen for each month. The total number of cases reported for the year was ninety-four, with a light mortality of nine.

The ordinance in regard to these infectious diseases has been rigidly enforced. As soon as a case was reported at the health office, the house in which it occurred was immediately placarded, and every available measure taken to prevent the spread of the infection. The largest mortality, from any one disease, was from consumption —200; which is the smallest mortality reported from this disease since 1882, when our population was much

26330

smaller than it is now. Those interested in the study of these statistics are referred to mortality tables.

The total number of deaths for the year was 1469—24 in excess of 1886—which is attributed to increase of population, and not a higher death rate per thousand. In calculating death rate, the same methods and same estimated population 62,335, one-third colored, are used. Dow's Directory, the last published, (for 1888,) gives 21,924 names of persons residing inside the corporate limits, which multiplied by three and one-half, the number usually taken in estimating population, from a business directory, would make according to that, a population of 78,413.

ANNUAL INSPECTION.

In May an annual house-to-house sanitary inspection of the whole city was made by special detail from the police department. It is recommended that this be done again this year in March or April, and that an official census be taken upon which a more reliable estimate of population can be made for calculating death rate.

THE GARBAGE SERVICE.

Though enlarged during the year by the addition of two air-tight carts and five mules, it requires two more air-tight and two open carts and six mules to perform satisfactorily the work required of it. The increasing demands made upon it by the growth of the city, necessitates a corresponding increase of carts, mules and men, unless relieved of some of the work by the extension of the sewer system as below indicated. The demands upon it now are beyond its proper capacity, and no branch of the health department is more essential to the maintenance of a good sanitary condition.

SEWER SYSTEM.

Comparatively little work was done during the year towards adding to the sewers and underground drains. The following statement from Engineer's office shows all that was done:

On Winchester and Quimby streets	650	feet.
Odd-Fellows' Hall	100	"
Monroe extended	550	"
Driver street	175	"
Alley west of Hill and north of Alabama st.	120	"
Total	1595	"

or one-third of a mile of new sewers and underground drains. The drains used were four-inch instead of the two-inch as formerly, the two-inch in several places proving two small. In future all such drains should be four-inch and laid as a sewer pipe, with the exception of the tight joint. There are now a fraction less than forty miles of sewers in successful operation. An additional number of manholes are recommended to facilitate the cleansing and removal of obstructions. To open a sewer trench and remove an obstruction in this way, costs on an average of ten dollars, besides the inconvenience incident to the delay and the damage done the pavement when it is necessary in a paved street or alley.

The sewer in First alley, from Adams to Washington street, known as the Vaccaro sewer, should be purchased by the city and added to the general system. The improvement of the old sewers, as recommended in the sixth, seventh, and eighth annual reports, is again urged. Ventilation openings and flush tanks are necessary to prevent the foul air, which pervades them, from forming and entering houses with which they are connected.

I will again urge the extension of the system through the ninth and tenth wards, which would do away with many earth-boxes by the substitution of water-closets, and greatly relieve the garbage service by saving the long haul of the air-tight carts from the extremes of the city to the dump boat, foot of Beale street.

BAYOU GAYOSO.

The recommendations in regard to the improvement of the sanitary condition of this stream and its branches within the city limits, made in several previous reports, are again urged as essential to the public health interest of the whole city, and especially to those living near it. An estimate for straightening in places, paving its bed twenty-five feet wide with flag stone laid in cement and building a two-foot retaining wall of stone on each side at a cost of $24.50 a running foot, was made by the City Engineer. A plat or diagram showing character of work with the estimated cost, is now in the City Engineer's office. The estimated cost per mile would be $129,360. This work should be commenced this year and continued until finished.

Several citizens who own property along the main bayou, have indicated their willingness to assist in the work along their property.

THE EXPENSE ACCOUNT

for the year is less, by $3785.79, than in the preceding year, though the amount of work done in each branch is fully up to preceding years. In considering the current annual expense of the department, the $6000 paid the water company for supplying the public offices, fire department, fire hydrants, flush tanks, etc., should be deducted, which would leave the cost of the health department for the year, $18,097.64.

For detailed statement of each branch, amount of work done, inventory of property, Dispensary and Hospital records, mortality tables, expense, etc., you are referred to accompanying tables.

PUBLIC WATER SUPPLY.

As the Legislative Council has made a conditional contract for a better water supply, there is nothing more to be said on this subject at present.

MEAT AND MILK INSPECTOR.

I will again call your attention to the necessity of an inspector for meat, milk, and all food animals designed for the market.

The health ordinances fully provide for such inspectors, but, to enforce them properly, requires the whole time of an expert officer for this specific duty, and each year the necessity for such an officer is more apparent.

TABLE I.

DEATH RATE PER THOUSAND POPULATION.

CENSUS OF 1883, COMPILED FROM SHOLES' DIRECTORY OF MEMPHIS, 62,335. WHITES, 40,207; COLORED, 22,128. TOTAL DEATHS FOR 1887, 1469; WHITES, 673; COLORED, 796.

Deaths		Ratio to 1000 Population		Ratio to 1000 Population	Ratio based on U. S. Census of 1880, 33,593; White, 18,622; Col., 14,971				
White	Colored	White	Colored	White and Colored	Died White	Died Colored	Ratio White	Ratio Colored	White and Colored
673	796	16.73	35.97	23.56	673	796	36.14	53.16	43.43

Table "A," below, shows the number of deaths of non-residents, composed chiefly of laborers employed in Mississippi and Arkansas on levees and railroads in course of construction, which occurred in this city in 1887—Whites, 189; Colored, 171; total, 360. The following table exhibits the ratio of mortality of the resident population proper only, the deaths of non-residents being eliminated.

TABLE II.

Population, 62,335. Sholes' Directory, 1883						Population, U. S. Census, 1880, 33,593					
Deaths of Residents proper		Ratio to 1000 Population		Ratio to 1000 Population		Deaths of Residents only		Ratio to 1000 Population		Ratio to 1000 Population	
				Residents proper, White and Colored						Residents proper, White and Colored	
White	Colored	White	Colored	Dea'hs	Ratio	White	Colored	White	Colored	Dea'hs	Ratio
449	571	11.16	25.80	10.20	16.36	449	571	24.11	38.14	10.20	30.36

TABLE "A,"

REFERRED TO IN TABLE II.

	White	Colored	Total
Deaths in city of non-residents mentioned in Table 2...	91	119	210
Deaths in Hospital of non-resid'ts mention'd in Table 2	98	58	156
Deaths by violence.....	35	48	83
Total.....	224	225	449

DISPENSARY RECORDS.

PATIENTS TREATED AT CITY DISPENSARY.		PATIENTS SENT TO CITY HOSPITAL.	
January	400	January	115
February	350	February	125
March	316	March	83
April	247	April	74
May	218	May	58
June	247	June	96
July	250	July	135
August	250	August	142
September	375	September	141
October	326	October	160
November	319	November	163
December	315	December	178
Total	3,613	Total	1,470

INVENTORY OF STOCK, WAGONS, CARTS, ETC., EMPLOYED IN GARBAGE SERVICE.

Mules	28	Clocks	1
Open Carts	20	Writing Desks	1
Air-tight Carts	6	Ambulances	1
Two-wheeled Buggies	1	Dump Boats	1
One-horse Wagons	1	Skiffs	1
Drays	1	Average number of men employed in garbage service during the year	24
Stoves	2		

Harness and paraphernalia complete.

TABULAR STATEMENT.

EXPENSES FOR THE YEAR 1887.

Pay Roll of Board of Health	$ 4,260.00
Pay Roll of Sanitary Police	780.00
Pay Roll of Garbage Service	7,914.85
Drugs for Dispensary	521.93
New Stock	210.00
Stock Feed	1,991.94
Wagons and Harness	802.57
Shoeing, and Repairing Wagons	938.55
Stables, and Dump Boat	199.45
Water	6,000.00
Printing and Stationery	211.25
Fuel and Ice	58.50
Office Repairs and Expenses	115.81
Scavenger	5.00
Quarantine	34.70
Public Vaccination	15.00
Drugs for College Dispensary	38.09
Total	$24,097.64

STATEMENT OF WORK DONE.

SANITARY POLICE REPORT.

Number of Houses Inspected	12,953
Number of Yards Inspected	12,870
Number of Water-closets Inspected	13,365
Number of Cisterns Inspected	180
Number of Stables Inspected	452
Number of Alleys Inspected	881
Number of Cellars Inspected	576
Number of Vaults Inspected	1,005
Number of Wells Inspected	58
Number of Sinks Inspected	223
Number of Butcher Shops Inspected	25
Number of Cess-pools Inspected	7
Number of Ponds Inspected	10
Number of Closets Cleaned	665
Number of Vaults Cleaned	185
Number of Alleys Cleaned	98
Number of Yards Cleaned	185
Number of Cellars Cleaned	59
Number of Cisterns Cleaned	33
Number of Stables Cleaned	10
Number of Sinks Cleaned	3
Number of Cisterns Sealed	30
Number of Cisterns Filled	17
Number of Vaults Sealed	20
Number of Ponds Filled	14
Number of Slop-Stones and Sinks Repaired	28
Number of Privy Drains into Bayou Stopped	15
Number of Houses Fumigated	210
Number of Warrants Issued	352
Number of Other Nuisances Abated	556

GARBAGE SERVICE REPORT.

Number of Loads of Garbage Removed	29,120
Number of Loads of Dirt, Bricks, Rocks, etc.	9,538
Number of Earth Boxes Removed	35,327
Number of Dead Dogs Removed	2,613
Number of Other Dead Animals Removed	208

METEOROLOGICAL SUMMARY

FOR THE YEAR ENDING DECEMBER 31, 1887, OF MEMPHIS, TENN.; LATITUDE 35 DEG. 7 MIN., LONGITUDE 90 DEG. 7 MIN.

MONTH	Actual Barometer	Mean Temperature	Ozone Sums a.m.	Ozone Sums p.m.	Dew Point	Relative Humidity	Precipitation (Inches)	Wind Movement (in Miles)
1887								
January	29.763	40.3	0.0	0.0	31.5	72.9	5.00	65.70
February	29.828	49.0	0.3	0.4	43.1	81.5	8.37	50.18
March	29.722	53.7	0.2	0.4	42.1	67.7	4.18	53.21
April	29.699	63.6	0.2	1.0	45.1	54.2	2.34	52.41
May	29.637	73.2	0.1	0.8	62.2	70.7	2.83	37.79
June	29.659	77.0	4.7	3.3	64.1	67.5	1.04	35.68
July	29.663	80.7	8.1	2.6	71.5	75.6	3.30	31.80
August	29.643	78.9	3.4	3.6	67.6	70.4	1.21	38.89
September	29.696	73.9	2.9	1.1	60.6	66.9	2.15	39.09
October	29.754	60.2	0.4	0.4	47.9	67.1	2.24	51.00
November	29.783	51.5	0.6	0.2	37.0	62.2	4.06	45.36
December	29.755	40.6	0.2	0.5	31.8	73.5	5.80	51.42
Sums	356.602	742.6	21.1	14.3	604.5	830.2	42.52	552.53
Annual Means	29.717	61.9	.....	.....	50.4	69.2	3.54	46.04

MORTALITY REPORT FOR 1887.

CAUSE OF DEATH	Jan.		Feb.		Mar.		April		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Total	
	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C
CLASS I—ZYMOTIC.																										
ORDER I—MIASMATIC.																										
Malarial Hæmaturia	2	...	...	..	...	...	...	..	...	...	...	...	...	...	...	..	1	...	1	...	...	...	..	...	4	.....
Dysentery	1	2	...	1	1	1	...	2	3	2	2	6	3	10	4	2	3	10	2	3	2	4	2	5	23	48
Fever—Malarial	1	1	1	3	2	2	2	1	2	2	3	4	3	11	5	7	7	12	5	3	...	5	...	3	31	54
" Typhoid	2	...	1	...	...	...	3	1	...	...	2	...	4	...	3	3	...	2	2	2	5	5	5	2	27	15
" Scarlet	...	1	..	1	1	...	3	...	1	.	1	..	...	...	...	...	...	...	...	...	..	...	1	...	7	2
" Congestive	3	1	2	1	3	...	4	8	3	2	13	3	...	...	7	9	8	6	7	4	4	2	...	1	54	37
" Continued	...	...	...	...	1	...	...	...	...	...	...	1	9	5	...	...	1	...	1	1	...	...	...	...	12	7
" Rheumatic	...	...	...	...	1	1	1	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	1	...	5	1
" Remittent	...	...	...	...	..	...	..	...	1	2	...	1	...	1	3	...	...	...	...	1	...	...	...	..	4	5
" Intermittent	...	...	...	1	...	...	..	...	...	..	...	...	...	1	1	1	..	...	...	...	...	...	...	...	1	3
" Pernicious	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	.....
" Catarrhal	...	...	1	...	..	1	...	...	...	...	...	...	...	.	...	...	...	...	...	..	...	...	...	...	1	1
" Bilious	..	...	...	1	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	1
Septicæmia	1	1	..	...	1	...	...	...	2	2	...	1	...	1	..	1	1	1	...	...	...	...	1	...	6	7
Croup	1	...	1	...	...	...	...	...	..	...	...	...	...	...	...	1	...	1	2	2	...	...	...	3	4	7
Erysipelas	1	...	...	...	1	...	...	1	1	...	1	...	...	...	...	...	..	1	...	1	1	...	...	1	5	4
Varicella	...	1	...	...	...	...	..	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	..	...	...	1
Diarrhœa	2	...	2	2	1	1	1	..	...	2	2	1	4	...	2	...	3	3	3	1	2	...	...	1	22	11
Diphtheria	...	..	1	...	..	...	...	2	...	1	1	1	3	...	2	5	4	3	8	4	4	...	4	1	27	17
Measles	...	...	1	1	3	7	...	4	...	2	1	1	...	...	...	...	..	...	...	...	1	...	...	...	6	15
Hydrops	...	..	...	...	...	...	1	1	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Cholera Infantum	...	...	...	...	...	...	...	...	5	...	2	2	5	2	3	2	2	2	...	...	1	...	...	...	18	8
Dropsy	1	1	...	...	...	...	..	..	...	...	...	1	...	1	...	2	...	2	1	4	1	1	2	2	5	14
Jaundice	...	...	...	...	...	...	..	...	...	...	..	...	...	...	1	1	...	...	...	...	...	..	...	...	1	1
Whooping Cough	...	...	...	...	1	...	...	...	...	...	...	...	..	...	...	...	1	...	1	1	...	...	...	...	3	1
Anasarca	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	.....

Hipjoint Disease	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	1	1
Cholera Morbus	...	...	...	...	...	.	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
ORDER II—Enthetic or Inoculated.																										
Syphilis	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	3
CLASS II—CONSTITUTIONAL.																										
ORDER I—Diathetic.																										
Cancer	1	...	1	...	1	...	...	...	3	...	...	...	...	...	...	...	1	2	...	1	...	...	...	...	7	3
Marasmus	...	1	...	...	...	1	...	...	...	1	...	2	...	1	2	...	2	...	...	4	...	1	...	1	4	12
Scrofula	...	...	...	...	...	1	...	...	...	...	1	...	...	..	...	...	...	...	..	. .	...	...	...	...	1	1
Struma	..	..	...	...	1	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	1	.....
Abdominal Tumor	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	.....
Cancer of Stomach	...	...	...	...	...	...	...	...	...	..	...	1	...	...	...	...	...	...	...	...	...	...	...	..	...	1
ORDER II—Tubercular.																										
Consumption	1	9	7	15	9	19	4	9	4	8	8	10	5	15	2	6	8	12	6	8	4	8	5	18	63	137
Tuberculosis	...	...	1	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	3	.....
Hæmoptysis	...	...	...	...	..	...	..	..	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	1	...	1
ORDER III—Dietetic.																										
Inanition	...	1	...	1	1	6	3	2	2	6	6	4	1	8	2	6	4	4	1	1	2	2	...	...	22	41
Delirium Tremens	...	...	1	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	1	.....
Alcoholism	2	...	...	...	1	...	...	...	...	...	...	...	...	. .	...	...	...	...	...	...	...	...	...	...	3	.....
Anemia	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	.....
Inflammation of Mastoid Cells	...	...	...	...	...	...	...	..	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	.....
CLASS III—LOCAL.																										
ORDER I—Nervous.																										
Nervous Prostration	1	...	...	...	...	...	...	...	1	...	...	...	2	...	...	...	..	...	...	...	...	...	...	. .	4	.....
Congestion of Brain	2	2	. .	3	3	3	2	...	...	...	1	..	3	2	...	2	5	1	2	2	..	1	2	...	20	16
Paralysis	1	1	1	...	...	1	...	1	1	...	...	..	...	...	2	1	...	1	1	1	...	1	...	...	6	7
Spasms	...	4	...	1	...	2	1	1	1	3	...	4	1	1	...	3	1	4	2	7	...	2	2	3	8	35
Tubercular Meningitis	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2
Paraplegia	...	...	1	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	1	.....
Trismus Nascentium	...	...	1	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	1
Meningitis	...	...	1	2	1	1	1	...	2	...	1	1	2	...	...	...	..	...	...	...	1	1	...	...	9	5
Cerebro-Spinal Meningitis	...	...	1	1	...	...	..	1	1	...	...	...	...	...	...	...	...	...	...	...	...	. .	..	...	2	2
Tetanus	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	1	2	...	...	...	...	...	...	2	3

MORTALITY REPORT FOR 1887—Continued.

CAUSE OF DEATH	Jan.		Feb.		Mar.		April		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Total	
	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C
CLASS III—LOCAL.—Continued.																										
Apoplexy	...	...	...	...	1	...	1	...	2	..	...	...	1	1	...	...	...	...	1	...	...	1	...	...	6	2
Angina Pectoris	...	...	...	...	1	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	.....
Hydrocephalus	...	...	...	..	1	...	...	...	1	...	...	...	1	..	...	...	...	...	...	...	...	...	...	...	3	.....
Spinal Injury	...	...	...	...	...	1	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	1
Cerebral Anemia	...	...	...	...	...	...	1	...	...	..	...	...	...	...	...	...	..	...	...	..	...	...	...	...	1	.. ..
Locomotor Ataxia	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	1	.....
Sunstroke	...	...	...	...	...	...	...	...	...	...	..	...	3	2	3	2	...	...	...	...	...	...	...	...	6	4
Shock	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	1	1
Cerebral Softening	...	...	...	...	...	..	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	2	.....
Exhaustion	...	...	...	...	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	2	1
ORDER II—Circulatory.																										
Heart Disease	1	...	1	1	2	1	..	1	4	3	1	1	3	2	4	1	2	...	2	...	2	2	2	1	24	13
Hæmorrhage	...	2	1	...	...	...	...	...	...	1	...	..	...	..	...	...	...	..	...	...	...	1	...	...	1	4
Pericarditis	...	...	...	...	1	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	1	.....
Leucocythæmia	...	..	...	...	1	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	1	.....
Valvular Disease of Heart	...	...	...	...	1	...	...	...	...	...	...	...	..	...	...	...	...	...	..	...	...	...	...	...	1	.....
Cardiac Enlargement	...	...	...	...	...	...	...	...	...	...	1	...	...	..	...	...	...	...	...	..	...	...	...	...	1	.....
ORDER III—Respiratory.																										
Bronchitis, Chronic	2	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	.....
Asthma	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	1	3
Pneumonia	5	10	6	11	6	8	1	2	...	5	...	2	...	...	...	...	...	1	3	2	1	6	1	4	23	51
Pleuritis	1	...	...	2	...	...	...	1	...	...	..	...	...	...		...	...	...	...	...	...	..	...	...	1	3
Catarrhal Pneumonia	...	1	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Pulmonary Apoplexy	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	1	.....
Pleuro-Pneumonia	...	...	2	...	...	..	...	...	...	..	...	...	...	...	...	1	...	...	...	...	1	...	1	2	4	3
Laryngitis	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2	.....
Congestion of Lungs	...	...	..	...	...	2	...	...	...	2	...	1	...	1	...	...	...	..	...	...	...	...	...	..	...	6
Bronchitis	...	...	...	...	2	...	1	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	4	3

Œdema	...	...	...	1	.	...	...	..	...	...	...	...	..	..	...	...	...	...		...	...	1	.....
Abscess in Throat	...	...	...	...	.	...	1	...	...	...	...	...	..	..	...	...	...	...		...	...	...	1
Typhoid Pneumonia	...	...	...	...	.	...	1	...	...	...	..	1	..	..		...	...	...		...	...	1	1
Hæmorrhage of Lungs	...	...	...	...	.	...	...	1	...	...	...	...	..	..		...	...	...		...	...	1	.....
Acute Pharyngitis	...	...	...	...	.	...	...	...	...	..	...	...	1	..		...	...	...		...	...	...	1
Collapse of Lungs	...	...	...	...	.	...		..	...	...	...	1	..	..		.	...	...		...	.	1	.....
Emphysema	...	...	...	...	.	...		..	...	..	...	...	..	..		...	...	...		...	...	1	.....
Tonsilitis	...	...	...	...	.	...		..	...	...	...	...	..	..		1	...	...		...	...	...	1
Gangrene of Lungs	...	...	.	...	.	..		..	...	1	...	...	..	..		...	1	..		...	...	3	.....
ORDER IV—Digestive.																								
Pelvic Peritonitis	2	...	...	..	.	...		..	...	...	...	...	..	..		...	...	...		...	...	2	1
Cirrhosis of Liver	1	...	...	...	.	...		..	..	...	...	...	..	1	...	...	2	...		...	...	6	1
Congestion of Liver	...	1	...	...	.	..		..	...	...	...	...	.	..	..	...	...	...		...	...	...	2
Chronic Peritonitis	...	...	...	...	.	...		..	...	...	...	...	..	..	...	...	...	...		...	...	...	1
Congestion of Bowels	...	...	1	...	.	...		2	1	2	3	2	3	2	...	...	1	2		...	...	11	10
Gastritis	...	...	...	...	.	1		..	...	1	...	...	1	..	...	...	1	...	.	...	...	3	3
Hæmorrhage of Bowels	...	...	...	1	.	...		..	...	...	...	...	...	...	1	...	...	...	.	...	...	1	1
Painters' Colic	...	...	...	1	.	...		..	...	...	...	...	...	...	...	...	...	...	.	...	...	1	.....
Dyspepsia	...	...	...	...	.	...		..	...	...	...	...	...	...	...	...	...	...	.	...	...	...	1
Enteritis	...	...	...	...	.	1		..	...	1	...	...	1	...	...	2	1	...	.	1	...	4	3
Peritonitis	...	.	...	...	...	4		2	1	1	2	2	...	2	1	1	2	..	...	1	1	14	9
Gastro-Enteritis	...	...	...	...	.	...		3	...	...	...	1		..		...	1	...		...	...	7	.....
Hypertrophy	...	...	...	...	.	...		1	...	...	...	...		..		...	...	...	.	...	...	1	.....
Entero-Colitis	...	...	...	...	.	...		..	1	...	1	...		..		...	...	...	.	...	...	...	2
Hepatitis	..	...	...	...	.	...		.	...	...	...	...		..		...	...	...	.	...	...	1	1
Salivation	..	...	...	...	.	...		..	...	...	...	1		..		...	...	..	.	...	...	1	.....
Abscess of Liver	...	...	...	..	.	...		..	...	...	...	...		..		..	...	1	2	...	...	2	2
Inguinal Hernia	...	...	...	...	.	...		..	...	...	...	...		..		1	...	1	.	..	...	...	2
Umbilical Hæmorrhage	...	...	...	...	.	...		.	...	...	...	...		.		1	..	...	.	...	...	...	1
Piles	...	...	...	...	.	..		..	...	...	...	...		..		...	...	1	.	...	...	...	1
Entozoa	...	...	...	...	.	...		..	...	...	...	...		..		...	...	...	.	1	...	...	1
Tabes Mesenterica	...	...	...	...	.	...		..	...	1	...	...		..		...	...	...		...	...	2	.....
Intestinal Perforation	...	...	...	...	.	...		..	...	...	...	...		..		...	...	...	.	...	...	1	.....
ORDER V—Urinary.																								
Nephritis	1	...	...	...	.	1		..	...	...	...	...		1		...	..	...	.	...	...	3	.....
Bright's Disease of Kidneys	...	...	1	...		...		..	1	1	...	1		..		..	...	...	2	...	...	6	2

MORTALITY REPORT FOR 1887—CONTINUED.

CAUSE OF DEATH	Jan.		Feb.		Mar.		April		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Total	
	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C
CLASS III—LOCAL.—Continued.																										
Diabetes	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	3	.....
Pyo-Nephrosis	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	.....
Albumenuria	...	...	...	...	...	...	...	...	1	...	..	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Urema	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	1	...	3	.....
CLASS IV—DEVELOPMENTAL.																										
ORDER I—CHILDREN.																										
Dentition	...	2	1	...	...	...	...	2	...	1	2	...	...	1	...	2	1	1	2	2	...	...	...	...	6	11
Premature Birth	...	3	3	...	1	1	...	1	3	1	...	4	2	1	1	1	1	...	...	3	...	1	...	2	11	18
ORDER II—WOMEN.																										
Puerperal Septicæmia	1	..	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	1	.....
Puerperal Fever	...	..	1	...	...	...	1	...	...	1	...	..	...	1	...	...	...	...	...	...	...	...	...	...	2	2
Puerperal Peritonitis	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	..	...	...	1	...	..	1	...	...	1	1
Exhaustive Labor.	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	.....	1
ORDER III—NUTRITION.																										
General Debility	1	1	...	...	...	1	1	2	2	1	2	2	1	3	1	2	1	3	...	...	...	...	...	1	9	16
Old Age	...	...	...	...	...	...	..	...	...	..	...	...	...	...	...	..	...	...	...	...	1	...	3	...	4	.....
CLASS V—VIOLENT DEATHS.																										
ORDER I—ACCIDENTS.																										
Internal Injury	...	1	...	...	...	...	...	...	..	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	.....	1
Injury from Explosion	1	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	.....
Railroad Accident	...	...	1	...	...	...	1	...	...	...	2	...	...	...	...	...	...	1	...	...	1	2	...	...	5	3
Gunshot Wound	...	...	1	...	...	1	...	...	...	...	...	...	...	1	...	1	...	1	...	...	...	...	...	...	1	4
Overdose Soothing Syrup	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	.....
Smothered	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	.....
Burn	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	2	1	4	1
Fall	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	.....

Drowned	...		...	...	...	...	...	2	...	...	...	2	...		...	...	...	...	...	...	...	...	...	...	...	5
Scald	...		...	...	...	...	1	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	1	...	
Strangled	...		...	...	...	...	...	...	...	1	...	...	...		...	...	...	...	...	...	...	...	...	...	...	1
Accident	...		...	...	...	...	...	...	...	1	...	1	1		...	...	...	1	...	...	...	...	1	1	4	
Accidental Poisoning	...		...	..	...	..	...	...	...	...	...	...	...		...	...	2	...	...	...	...	...	...	2	...	
Overdose Opium	...		...	...	...	...	...	...	...	...	...	...	..		...	...	...	...	1	...	...	...	...	1	...	
Contusion	...		...	...	...	...	...	...	...	...	...	...	...		...	...	..	...	...	...	...	..	1	...	1	
Knife Wound	...		...	...	...	...	...	...	...	...	...	...	...		...	...	...	..	...	1	...	...	...	...	1	
ORDER II—Homicide.																										
Opium Poison	1		...	...	...	...	1	...	...	...	...	...	1		..	...	...	...	..	...	...	...	..	...	3	...
Suicide	...		...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	2	...	
ORDER III—Sudden and Other Deaths.																										
Exposure	...	2	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	2	1	7	
Unknown	..		1	2	...	1	1	...	1	3	...	6	...	4	5	2	...	2	...	6	...	5	...	6	8	38
Murdered	...		...	...	..	...	...	...	...	...	...	...	...	...	..	1	...	..	...	...	...	...	...	...	...	1
Neglect	...		...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	1	..	...	...	...	1	2	
Total deaths	41	5	47	55	60	69	47	53	61	58	65	75	70	85	61	71	68	86	62	71	48	55	43	67	673	796
Still-births	...	6	3	3	4	6	2	4	2	4	1	7	2	6	2	4	...	6	1	11	...	7	4	3	...	...

MORTALITY REPORT FOR 1887—CONTINUED.

AGES.

MONTH	Under One Year		From 1 to 5 Years		From 5 to 15 Years		From 15 to 25 Years		From 25 to 50 Years		From 50 to 75 Years		Over 75 Years		Total	
	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C
January	4	14	3	8	4	3	6	7	16	12	8	7	0	0	41	51
February	7	5	3	10	3	3	12	10	13	19	9	8	0	0	47	55
March	10	14	8	15	3	13	7	11	29	14	3	2	0	0	60	69
April	5	8	7	9	4	7	5	8	20	14	6	5	0	2	47	53
May	18	16	7	10	4	4	6	6	13	16	10	5	3	1	61	58
June	15	24	11	11	0	8	10	8	20	14	8	8	1	2	65	75
July	16	18	2	15	5	4	11	10	18	25	18	11	0	2	70	85
August	11	16	10	11	5	13	4	7	21	16	9	6	1	2	61	71
September	11	10	6	15	3	7	2	14	30	23	15	16	1	1	68	86
October	11	21	10	9	7	7	6	9	18	11	7	14	3	0	62	71
November	3	4	6	6	3	5	6	12	21	18	8	8	1	2	48	55
December	3	13	7	7	3	2	7	17	16	22	4	6	3	0	43	67
Total	114	163	80	126	44	76	82	119	235	204	105	96	13	12	673	796

SEX.

MONTH	Adult Males		Adult Females		Minor Males		Minor Females		Total Males		Total Females		Total Adults		Total Minors	
	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C
January	12	14	13	7	9	17	7	13	21	31	20	20	25	21	16	30
February	16	16	11	14	14	14	6	11	30	30	17	25	27	30	20	25
March	24	12	13	7	14	28	9	22	38	40	22	29	37	19	23	50
April	17	9	12	16	11	16	7	12	28	25	19	28	29	25	18	28
May	20	15	9	16	15	14	17	13	35	29	26	29	29	31	32	27
June	19	15	16	17	18	26	12	17	37	41	28	34	35	32	30	43
July	30	24	15	19	14	24	11	18	44	48	26	37	45	43	25	42
August	22	15	11	12	15	18	13	26	37	33	24	38	33	27	28	44
September	29	23	16	25	12	15	11	23	41	38	27	48	45	48	23	38
October	21	18	12	15	17	20	12	18	38	38	24	33	33	33	29	38
November	28	19	7	15	6	12	7	9	34	31	14	24	35	34	13	21
December	17	21	11	17	9	17	6	12	26	38	17	29	28	38	15	29
Total	255	201	146	180	154	221	118	194	409	422	264	374	401	381	272	415

NINTH ANNUAL REPORT

OF THE

BOARD OF HEALTH

OF THE

Taxing District of Shelby County,

(CITY OF MEMPHIS,)

FOR THE YEAR 1887,

—BY—

G. B. THORNTON, M. D., PRESIDENT.

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MORTALITY REPORT FOR 1887—CONTINUED.

NATIVITY.

MONTH	Unknown		Tennessee		Other States		Ireland		Germany		Other Countries		Total	
	W	C	W	C	W	C	W	C	W	C	W	C	W	C
January	6	7	12	32	18	12	2	—	1	—	2	—	41	51
February	8	12	13	23	18	20	5	—	2	—	1	—	47	55
March	6	16	22	39	22	14	5	—	3	—	2	—	60	69
April	4	8	22	33	13	12	5	—	2	—	1	—	47	53
May	10	10	36	38	10	10	1	—	2	—	2	—	61	58
June	11	22	30	41	11	12	5	—	4	—	4	—	65	75
July	13	17	27	44	15	24	6	—	5	—	4	—	70	85
August	8	18	30	41	9	12	3	—	4	—	7	—	61	71
September	11	16	26	39	15	31	4	—	5	—	7	—	68	86
October	5	14	26	39	21	18	5	—	1	—	4	—	62	71
November	9	11	18	25	13	19	2	—	3	—	3	—	48	55
December	8	17	10	30	17	20	2	—	1	—	5	—	43	67
Total	99	168	272	424	182	204	45	—	33	—	42	—	673	796

SOCIAL RELATION.

MONTH	Single Males		Single Females		Married Males		Married Females		Widowers		Widows		Unknown Males		Unknown Females		Total	
	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C
January	10	17	7	14	4	5	7	4	1	2	6	2	6	7	0	0	41	51
February	17	19	5	13	6	5	9	10	2	1	2	2	5	5	1	0	47	55
March	21	28	10	22	4	4	7	3	1	1	3	1	12	8	2	2	60	69
April	14	17	8	11	7	4	9	7	0	2	2	7	7	3	0	2	47	53
May	19	19	15	16	9	7	6	7	2	0	4	3	5	3	1	3	61	58
June	23	22	14	16	8	11	6	12	0	0	4	2	6	8	4	4	65	75
July	20	28	18	19	13	11	4	10	2	2	1	2	9	8	3	5	70	85
August	12	19	16	26	12	5	5	5	1	1	3	4	12	8	0	3	61	71
September	16	19	11	34	8	9	8	9	1	0	3	2	16	10	5	3	68	86
October	19	20	14	23	15	6	4	5	1	0	4	2	3	12	2	3	62	71
November	11	11	9	14	9	10	2	4	2	0	3	1	11	10	1	5	48	55
December	12	12	8	19	3	15	5	8	1	0	3	2	10	8	1	3	43	67
Total	194	231	135	227	98	92	72	84	14	9	38	30	102	90	20	33	673	796

MORTALITY REPORT FOR 1887—CONTINUED.

LOCALITIES.

MONTH	First Ward		Second Ward		Third Ward		Fourth Ward		Fifth Ward		Sixth Ward		Seventh Ward		Eighth Ward		Ninth Ward		Tenth Ward		City Hospital		Total	
	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C	W	C
Jan	3	6	3	1	4	2	4	4	3	4	1	6	1	5	5	8	3	...	7	9	7	6	41	51
Feb	2	10	5	1	5	2	4	...	2	5	3	...	5	10	9	9	4	4	3	6	5	8	47	55
March ...	10	6	8	5	5	2	4	3	4	6	3	4	2	13	5	4	1	6	4	9	14	11	60	69
April	4	6	6	1	3	2	3	3	1	11	2	6	3	6	6	4	2	4	9	8	8	2	47	53
May	2	4	5	1	6	3	5	2	1	5	4	2	7	3	8	9	5	7	13	18	5	4	61	58
June	6	6	5	2	4	2	3	2	4	10	2	7	2	10	7	10	7	14	14	9	11	3	65	75
July	3	3	6	5	8	3	4	1	6	12	1	9	5	9	8	7	6	16	10	16	13	4	70	85
August...	7	5	2	2	5	...	7	1	5	12	4	9	2	9	7	5	6	13	7	10	9	5	61	71
Sept.	4	9	4	3	6	2	5	3	6	12	4	4	6	13	10	13	4	10	8	11	11	6	68	86
Oct.	1	6	5	5	4	2	5	1	6	7	5	4	5	4	9	7	9	13	7	12	6	10	62	71
Nov..	...	1	1	5	5	1	3	..	4	10	1	8	3	6	12	5	6	4	4	5	9	10	48	55
Dec..	3	5	1	5	3	...	2	...	3	10	3	1	7	7	3	14	...	6	4	11	14	8	43	67
Total..	45	67	51	36	58	21	49	20	45	104	33	60	48	95	89	95	53	97	90	124	112	77	673	796

NUMBER OF CASES OF CONTAGIOUS DISEASES REPORTED IN 1887.

MONTH	Scarlet Fever		Diphtheria	
	W	C	W	C
January.....	2	...	4	1
February.....	7	1	3	...
March.....	14	...	4	1
April.....	12	1	3	4
May.....	11	1	1	1
June.....	3	...	1	1
July.....	1	...	8	4
August.....	5	...	16	14
September.....	5	1	8	11
October.....	8	...	31	5
November.....	13	1	21	3
December.....	8	...	13	2
Total	89	5	113	47